

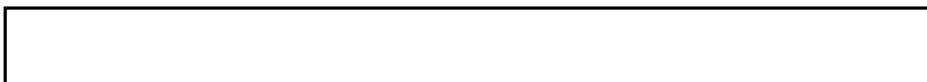
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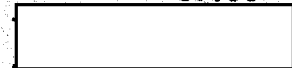
PHOTOGRAPHIC INTELLIGENCE REPORT

SEVERODVINSK NAVAL BASE AND  
SHIPYARD 402, SEVERODVINSK, USSR



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CIA/PIR 67166



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SEVERODVINSK NAVAL BASE AND SHIPYARD 402

SEVERODVINSK, USSR

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SHIPYARD : NAVAL BASE & SHIPYARD 402  
LOCATION : SEVERODVINSK, USSR  
GEO COORDS: 64-35N 039-50E

KEY TO VESSEL ANNOTATIONS

1. Possible "G" Class SSB (visible waterline length approx 310').  
White object is visible by sail. See annotation 14, [REDACTED]
2. Probable "J" Class SSG (visible waterline length approx 280'). See  
annotation 13, [REDACTED]
3. Possible auxiliary (LOA approx 310') and possible submarine.  
The possible submarine is berthed outboard of the possible auxiliary.  
See annotations 11 and 12, [REDACTED] All three vessels in annotations  
2 and 3 are berthed in nearly identical positions as the two "J" Class  
SSG and an unidentified [REDACTED] auxiliary observed alongside this quay  
[REDACTED] See annotations 1-3, Figure 5, [REDACTED]
4. Very large floating crane. This is believed to be the same crane which  
was seen alongside the large floating dock placed perpendicularly to the  
Fitting-out Quay, Main Yard on [REDACTED] (see annotation 25, [REDACTED])  
The present position of this floating crane is within a few feet of the  
position of the large floating crane observed on [REDACTED] alongside this  
quay near six cylindrical sections on the quay (see annotation 6, Figure  
5, [REDACTED]) It cannot be ascertained on this [REDACTED] coverage whether or  
not the six cylindrical sections observed on [REDACTED] (annotation 5, Figure  
5, [REDACTED]) or the (approximately) ten unidentified objects observed on the  
quay on [REDACTED] (annotation 8, [REDACTED]) are still present.
5. Probable submarine on floor of unflooded shallow basin in front of main  
construction hall doors (visible LOA of vessel is approximately 345 feet).  
Although this vessel appears to be covered by canvas on end nearest con-  
struction hall and no sail is visible, it is identically placed on the  
basin floor, with respect to the construction hall and the vessels near it,  
as was the possible "N" Class SSN observed in this position on [REDACTED]  
See annotation 33, [REDACTED] Conformity of visible hull outline, approx-  
imate LOA, and the presence of a rectangular support barge along the inboard

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side of this vessel support this conclusion. End of vessel furthest from the construction hall may be partially obscured by shadow from dock wall (annotation 9, Figure 1). This vessel appears to be positioned on the center track of the three tracks leading into the northern half of the main construction hall.

6. Possible rectangular support barge (LOA approx 220'). See annotation 32, [REDACTED]
7. Probable submarine support barge (LOA approx 190'). See annotation 31, [REDACTED]
8. Possible YAGT. See annotation 7, [REDACTED]
9. Possible "H" Class SSBN in floating dock resting on unflooded shallow side of main launch basin. LOA of submarine is no greater than approximately 390'; LOA of dock is approximately 440'. See annotation 30, [REDACTED]  
The canvas or sheds seen previously on the bow of this submarine have been removed. Sheds or canvas approximately 65 feet in length cover the stern section of the submarine. Staging or canvas is visible forward and along each side of the sail of the submarine beginning at a point approximately 65 feet from the bow and terminating roughly 240-250 feet from the bow. The last point at which the sail of the submarine can be seen is approximately 175 feet from the bow. The best approximate determination of the apparent leading edge of the sail as seen on this [REDACTED] stereo photography is roughly 105 feet from the bow. It cannot be determined on this photography whether or not the forward section of the sail may be stripped away or if the staging/canvas may cover a portion of the after section of the sail.
10. Unoccupied berthing space along Fitting-out Quay, Main Yard. A possible "E" Class SSGN and possible support barge were berthed in this position [REDACTED] See annotation 29, [REDACTED]
11. Possible support barge (LOA approx 180').  
No submarine is berthed alongside this barge. A large unidentified SS was observed in this berthing position on [REDACTED] See annotation 28, [REDACTED]
12. Two possible RIGA Class DE (visible LOA approx 290'). See annotation 5, [REDACTED]

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13. Unoccupied floating dock.  
A possible "N" Class SSN was observed in this dock on [ ] (see annotation 24, [ ] Optimum viewing angle, lack of any object height above dock floor, and flat surface of dock floor all substantiate lack of dock occupancy at this time.
14. Unidentified large submarine berthed outboard of service barge alongside quay (could not be measured).  
See annotation 27, [ ] A series of three small linear objects, possibly equating to floating vertical security screens previously observed alongside "E" Class submarines, are outboard of this submarine.
15. Unidentified large submarine berthed outboard of service barge alongside quay (could not be measured).  
See annotation 26, [ ] Two small linear objects, possible floating vertical security screens, are outboard of this submarine.
16. Probable BOLVA Class APL (visible LOA approx 340'). See annotation 4, [ ]
17. Possible "N" Class SSN (visible LOA approx 340').  
Possible "staybrite" on the bow is visible. Submarine is positioned outboard of probable support barge in same position as possible "N" Class observed on [ ] (see annotation 21, [ ] Unidentified imagery is visible outboard of the submarine.
18. Large unidentified submarine (apparent waterline length approx 380').  
Submarine is in an identical position outboard of a support barge as was a possible "E" Class observed on [ ] (see annotation 2, [ ] A probable crane (annotation "A") is located on the quay just forward of the eastern end (probable bow) of the submarine. A smaller object (annotation "B") which appears to resemble the "M-130" type structure observed on [ ] photography) is located on the quay's edge in line with a position on the submarine roughly some 70-80 feet from its visible westernmost (probable after) end. For a description of the structure on this quay on [ ] which appeared to resemble the spent fuel handling structure ("M-130" house) observed at U.S. Naval Nuclear Refueling Facilities, refer to annotation 9, Figure 8, [ ] A more detailed analysis of the apparent movement of objects observed on this quay will be found in the facility notes at the end of this PIR (annotations "A", "B", and "C", [ ]

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19. Probable ZEYA Class YSRN.

This vessel is berthed in the identical position at this quay as was the ZEYA Class YSRN observed at the Nuclear Submarine Special Support Facility on [ ] (see annotation 1, [ ] There is no evidence of any small structure on the quay by this vessel at this time [ ] [ ]. The structure previously seen on the quay by this vessel appears to have been moved to a position further east along the quay. See annotation 1a, [ ] annotation 18 above, and facility annotations "A", "B", and "C" below.

20. Probable "N" Class SSN in side launching basin (apparent waterline length approx 360').

Factors contributing to this identification are: (1) Hull outline - bulbous bow and pinched stern; (2) a probable small sail positioned well forward on the submarine; (3) lack of any segmentation suggestive of cruise missile exhaust ports (which, if present, should have been visible due to camera angle and optimum orientation of submarine with respect to sun angle); and (4) a possible "staybrite" belt on the bow (bow is positioned toward the open end of the basin). Faint water disturbances are visible just abaft amidships on the port side and by along the starboard quarter of the submarine. No submarine has been observed in this basin in recent [ ] coverages of Severodvinsk. It is not believed that this submarine was recently launched from this basin since the catamaran-type hull observed on the side launching way (annotation 21 below) has been located in the same position since [ ] (see annotation 12, [ ] - CIA/PIR-67164). It should be noted that the large floating dock observed to contain a possible "N" Class SSN on [ ] (annotation 24, [ ] is now unoccupied. See annotation 13 above.

21. Probable catamaran-type vessel under construction on side launching way (LOA approx 310').

Vessel is in same position as observed on [ ] See annotation 18, [ ]

KEY TO ANNOTATIONS ON QUAY

NUCLEAR SUBMARINE SPECIAL SUPPORT FACILITY, YAGRY ISLAND

- A. Goosenecked portal crane on quay just east of submarine berthed outboard of support barge alongside quay. Image height, appearance, and length of shadow relative to the main building at this facility contribute to this identification. Tower supports, crane cab, goosenecked jib, and shadow from tower and jib are visible on this photography. This is most

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likely the same crane which was observed roughly 130 feet further west on this quay in line with the mid-section of the possible "E" Class SSGN

See annotation 2a,

- B. Small object spanning quayside craneway. This object is in line with the visible (probable) after fifth of submarine berthed outboard of support barge alongside quay (see annotation 18 above). The camera angle from which the object is viewed is oblique, not vertical, and is approximately toward the northeast - or oriented roughly along the axis of the craneway paralleling the quay at the Special Support Facility. On the larger scale the oblique camera angle from which this facility was viewed was approximately toward the southeast - or slightly offset from the axis of this craneway. On "a high uniquely configured structure - apparently mounted (and mobile)" was observed "on (the) quayside craneway" in line with the after 2/5ths of an "N" Class SSN berthed outboard of a barge alongside the quay. The location of this structure on was roughly 300 feet further west (at annotation "C", Figure 1, ) than the similar looking structure seen on this mission at annotation "B". The structure now observed at annotation "B" resembles the structure seen on (annotation 9, Figure 8, ) in the following particulars: (1) it is roughly the same height - as determined by stereo imagery and shadow factor - when compared to both the higher large building at the Facility and the higher crane at annotation "A" (it is roughly 1/3rd the height of the crane); (2) this structure appears to be aligned on the craneway tracks; and (3) the oblique view afforded by the camera angle clearly shows that the vertical outline of this object is slightly angled inward from its base on the quay to the top of the structure. This is similar to the vertical profile of this structure when observed on - the supports upon which the structure was mounted spanned the craneway and angled inward slightly from the craneway toward the "house" at the top of the structure. This "house" was partially suspended from the top of these supports over the center of the craneway (as distinct from a crane cab which is mounted above its tower). It is believed that this structure may therefore be the same structure as was first observed on (annotation 9, Figure 8, ) and subsequently sighted on annotation 1a, .

- C. Position on quay where a small uniquely configured structure was previously observed on the craneway on (annotations 9, Figure 8, ) and annotation 1a, . There is no evidence in stereo of any structure at this location at this time. The sighting

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of only one crane and one smaller structure on this craneway on [ ]  
[ ] photography [ ] lends further support that the struc-  
ture believed to resemble an "M-130" house has moved from its position  
near the "N" Class SSN (which has since left this facility) to a new  
position on the quay alongside the large unidentified submarine ob-  
served to occupy the same berthing space as the "E-II" Class SSGN on  
[ ] (annotation 2, Figure 8, [ ]

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NOTE: All measurements have been made by the CIA/IAD project analyst.  
They should not be construed as being mensuration data compiled  
by the NPIC Technical Intelligence Division.

## REFERENCES

## DOCUMENTS

CIA/PIR-67165, Severodvinsk Naval Base and Shipyard 402, Severodvinsk,  
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CIA/PIR-67164, Severodvinsk Naval Base and Shipyard 402, Severodvinsk,  
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CIA/PIR-67041, Severodvinsk Naval Base and Shipyard 402, Severodvinsk,  
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64-35N 039-50E  
SEVERODVINSK, USSR

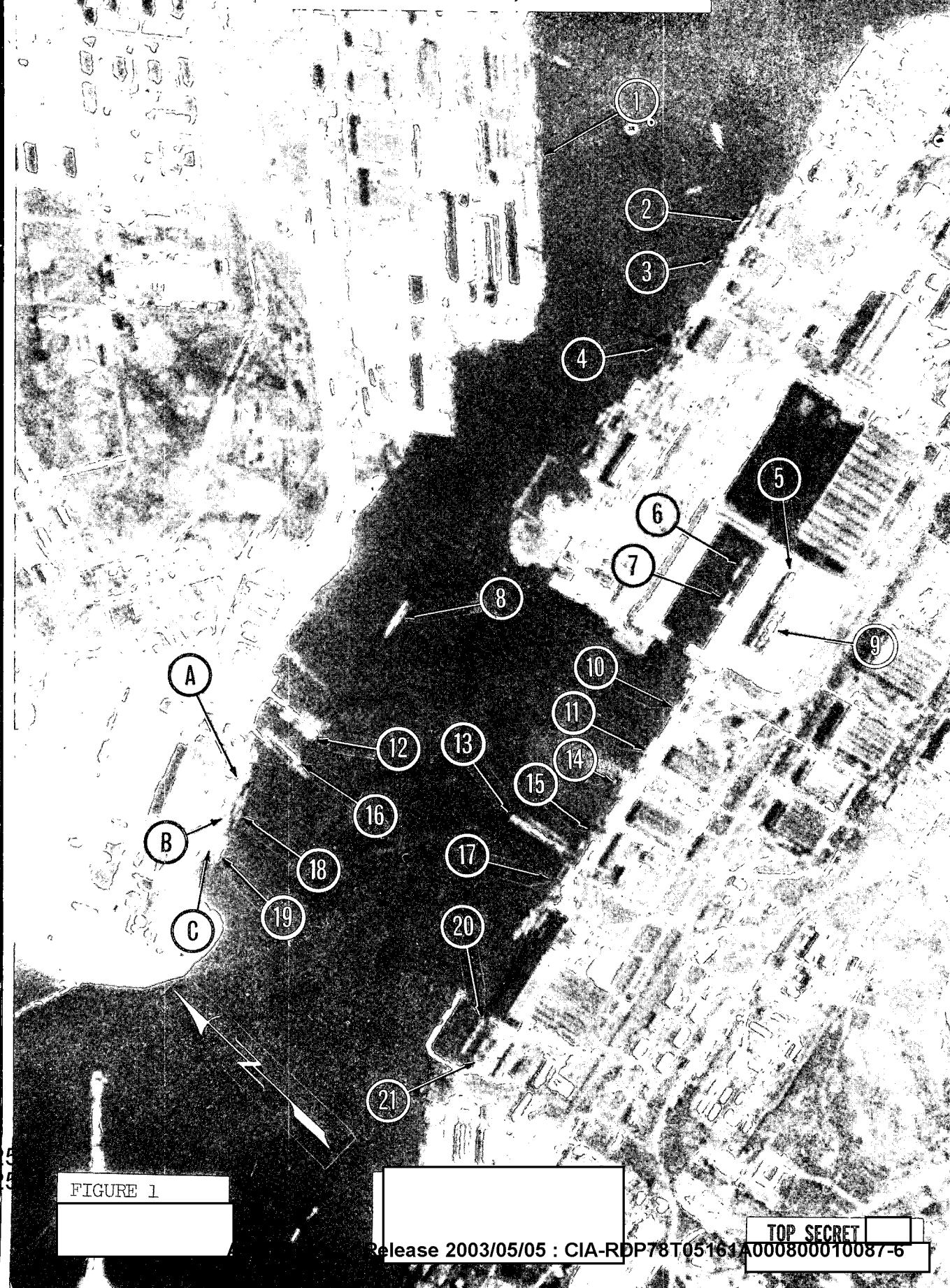


FIGURE 1

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